THE URBAN DISTRICT COUNCIL OF

WATERLOO-WITH-SEAFORTH.

ANNUAL REPORTS

OF THE

Medical Officer of Health

AND OF THE

Sanitary Inspector

FOR THE YEAR 1906.

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ANNUAL REPORT

FOR 1906.

The Chairman and Members of the
Urban District Council of Waterloo=with=Seaforth.

GENTLEMEN,

In accordance with the requirements of the Local Government Board I have much pleasure in presenting to you my Thirty-third Annual Report on the Health and Sanitary condition of your District during the past year, together with a Report of the Sanitary Inspector.

Included in the Report are seven tables as to the Vital Statistics of the District, five of which are required by the Local Government Board, one by the Home Office, and Table (C) by the County Medical Officer of Health.

TABLE 1 deals with the vital statistics for the whole District during 1906 and 10 previous years.

TABLE 2 deals with vital statistics of the separate localities in 1906 and 10 previous years.

TABLE 3 deals with Infectious Diseases notified during 1906.

TABLE 4 deals with causes of, and ages at death, during the year 1906.

TABLE 5 deals with Infant Mortality during 1906.

TABLE 6 is a summary of work done under the Factory and Workshop Act, 1901.

TABLE 7 is a summary of Report required by the County Medical Officer of Health.

INFECTIOUS DISEASES NOTIFIED.

Under the provisions of the Notification Act, 58 cases were notified to me in the Waterloo Division. These occurred in 48 houses, 45 were treated in their homes, of which 2 died, thirteen were removed to the Infectious Diseases Hospital, Liverpool, and none proved fatal.

In the Seaforth Division 85 cases were notified from 71 houses, 40 cases were nursed at home and 2 died; 36 cases were removed to Hospital, of which 5 died.

The total number for the entire District was 143 cases in 119 houses, and 49 were removed to the Infectious Diseases Hospitals, Liverpool.

The following table gives the number of cases notified for the past ten years:—

1897	**151**
1898	**214**
1899	**137**
1900	**131**
1901	**123**
1902	**162**
1903	**233**
1904	**152**
1905	**118**
1906	**143**

HOSPITAL ACCOUNT.

The expenditure connected with the reception of patients into the Infectious Diseases Hospitals, Liverpool, was as follows:—

Cost of Maintenance of Patients in Liverpool Hospitals	£405	10	0
Cr.—Amount received in respect of maintenance of Patients in Hospitals	21	8	5
	£384	1	7

SCARLET FEVER.

Thirty-three cases of this Disease occurred in 26 houses in the Waterloo Division, 24 were treated at home and all recovered; 9 were removed to Hospital and none proved fatal.

In Seaforth Division 48 cases were notified from 39 houses, 26 of the patients were nursed at home, and 22 were removed to Hospital, where 3 died.

Number of Cases notified for the past ten years.

1897	**73**
1898	**132**
1899	**78**
1900	**77**
1901	**60**
1902	**116**
1903	**149**
1904	**66**
1905	**66**
1906	**81**

Average for the last five years, 95.

DIPHTHERIA AND MEMBRANOUS CROUP.

Twelve cases were reported to me from 9 houses in the Waterloo Division, 10 were treated at home and 1 died, 2 cases were removed to Hospital and recovered. There were 13 cases in 10 houses in Seaforth Division, 7 were nursed at home, 2 terminating fatally; 6 were removed to Hospital and recovered.

Total, 25 cases and 3 deaths.

TYPHOID FEVER.

Seven cases of this Disease were notified from the same number of houses in Waterloo Division; 5 were treated at home and 1 died, 2 were removed to Hospital and recovered.

In Seaforth Division 16 cases occurred in 14 houses; 8 were nursed at home and all recovered, while 8 were removed to Hospital, where 2 cases died.

The number of cases for the entire District was 23 in 21 houses situate in different localities. Ten were removed to Hospital.

Number of Cases notified for the past ten years.

1897	**38**
1898	**55**
1899	**26**
1900	**30**
1901	**24**
1902	**16**
1903	**18**
1904	**21**
1905	**13**
1906	**23**

The average for the last five years being 18.

The number of persons attacked by this disease is greater than last year, which was the lowest we have ever had. On the result of enquiry we found that several of the cases were of persons employed on steamships, &c., trading to the Port of Liverpool, but residing in this District, who, it was stated, obtained impure water either on shipboard or at the port of embarkation. In one case the infection was attributed to the consumption of shellfish.

PUERPERAL FEVER.

One case of this disease was notified in the Seaforth Division, which died. Dr. Sergeant, the County Medical Officer of Health, Preston, who has the midwives of this District under his supervision, was promptly notified as to the circumstances of the case.

ERYSIPELAS.

Five cases occurred in Waterloo Division, and 7 in Seaforth Division; all recovered.

CHICKEN POX.

An outbreak of this disease having occurred in May, amongst the infants attending the Wesleyan Schools, Waterloo (there being 31 per cent. of the children absent therefrom), I recommended that this Department should be closed for at least a fortnight, which was done. The school premises were properly cleansed and disinfected by the Council's staff.

DIARRHŒA.

Under this heading we are now obliged by order of the Local Government Board to include all deaths from Enteritis occurring under one year of age. This accounts for the great increase in the number shewn in Table IV. This arrangement nearly doubles our death rate from zymotic causes, as will be seen in the part of the Report relating to Vital Statistics.

The leaflets prepared by me on "Advice on the Feeding and Rearing of Infants," are still being circulated in the District. The Registrar has a number of copies for distribution to persons registering births.

MIDWIVES' ACT, 1902.

I have received 3 notifications from midwives of intention to practise, and one "record of sending for Medical Help," all of which I forwarded to Dr. Sergeant, County Offices, Preston.

The following is a list of the midwives residing in this District, and who are registered under the Midwives' Act.

Name.	Address.
Scurrah, Catherine	33, Norway Street, Waterloo.
Clarke, Fanny Elizabeth	1, Rockland Road, Waterloo.
Navarro, Annie	10, Lyra Road, Waterloo.
Stubbs, Amy Adela	61, Sandy Road, Seaforth.
Routledge, Isabella Emily	1, Sandown Road, Seaforth.
Smith, Isabella	23, Thomson Road, Seaforth.
Blundell, Sophia	41, Church Road, Seaforth.
Tyson, Margaret	14, Rossini Street, Seaforth.
Telleson, Elizabeth	48, Caradoc Road, Seaforth.
Lilley, Ellen Rosa	95, Crosby Road, Seaforth.

INSPECTION OF THE DISTRICT.

The Inspector is still continuing his house to house inspection, and as a result a large number of nuisances were found out and dealt with. We have been able to get the walls, &c., of a number of dirty rooms, stripped and cleansed on service of preliminary notices. The four underground bakehouses are clean and well-ventilated, and they are kept in compliance with the Factory and Workshop Act, 1901.

I received an application to re-open an underground bakehouse, which had been closed for several years. I informed the applicant that it would not be in order to do this, so he arranged for the cellar to be filled in, and a bakehouse to be erected on the ground level. The milkhouses and shippons in the district were duly inspected, and any requisition made to the occupiers was promptly carried out.

The usual systematic inspections were made by me in company with the Sanitary Inspector, all parts of the District being visited during the year. We have also visited places where nuisances were reported to exist, a detailed account of which will be found in the Sanitary Inspector's Report.

SANITARY STATE OF THE DISTRICT GENERALLY AT THE END OF THE YEAR.

Until the last three months of the year we had very few cases of Infectious Disease, but during the last quarter, however, Scarlet Fever and Diphtheria were prevalent, they almost entirely diminished towards the close of the year.

The number of bins for house refuse has been greatly increased, and I have no doubt that this system will be more extensively adopted in the coming year.

The flushing of house drains which was commenced in the middle of 1905, has been continued, in addition to the flushing of drains after infectious disease. In consequence of the above measures which have been taken to prevent the spread of disease, I consider the District to be in a good sanitary condition.

VITAL STATISTICS.

ZYMOTIC DEATH RATE.

The number of diseases under this heading has been increased this year, by the addition of deaths of infants under one year of age from Enteritis, which, by order of the Local Government

Board, has been included under Diarrhœa for the first time. If the old classification were continued the number of deaths from these causes would have been 33, a death rate of 1·24 per 1,000, but with the new classification the number has been increased to 46, giving a death rate of 1·74 per 1,000; 9 of these were in Waterloo Division, a death rate of 0·75, and 37 in Seaforth Division a death rate of 2·56.

In the year 1905, 25 deaths were reported, giving a death rate of 0·95 per 1,000 of the estimated population.

Deaths from these causes were as follows:—

	Under 5 years.	Over 5 years.
Measles	7	1
Whooping Cough	7	—
Diphtheria	1	2
Enteric Fever	—	1
Diarrhœa	26	—
Puerperal Fever	—	1

GENERAL BIRTH RATE.

There were 669 births registered in the District during the past year, viz., 356 males and 313 females, giving a birth rate of 25·33. Of these 278 were in Waterloo Division, 145 of which were males and 133 females, which gives a birth rate in this Division of 23·23. In Seaforth Division the numbers were 391; 211 males and 180 females, a birth rate of 27·06. Last year the births were 692, giving a birth rate of 26·52.

GENERAL DEATH RATE.

The deaths registered during the year numbered 283, shewing a total rate of mortality for the entire District of 10·71 per 1,000 of the estimated population. Of these 104 were in Waterloo Division, giving a death rate of 8·69 and 179 in Seaforth Division, a death rate of 12·39.

In 1905 the deaths numbered 275, giving a death rate of 10·53 per 1,000 of the estimated population.

Chart shewing Birth Rate of Waterloo-with-Seaforth for the past 11 years, as per Column 4, Table I.

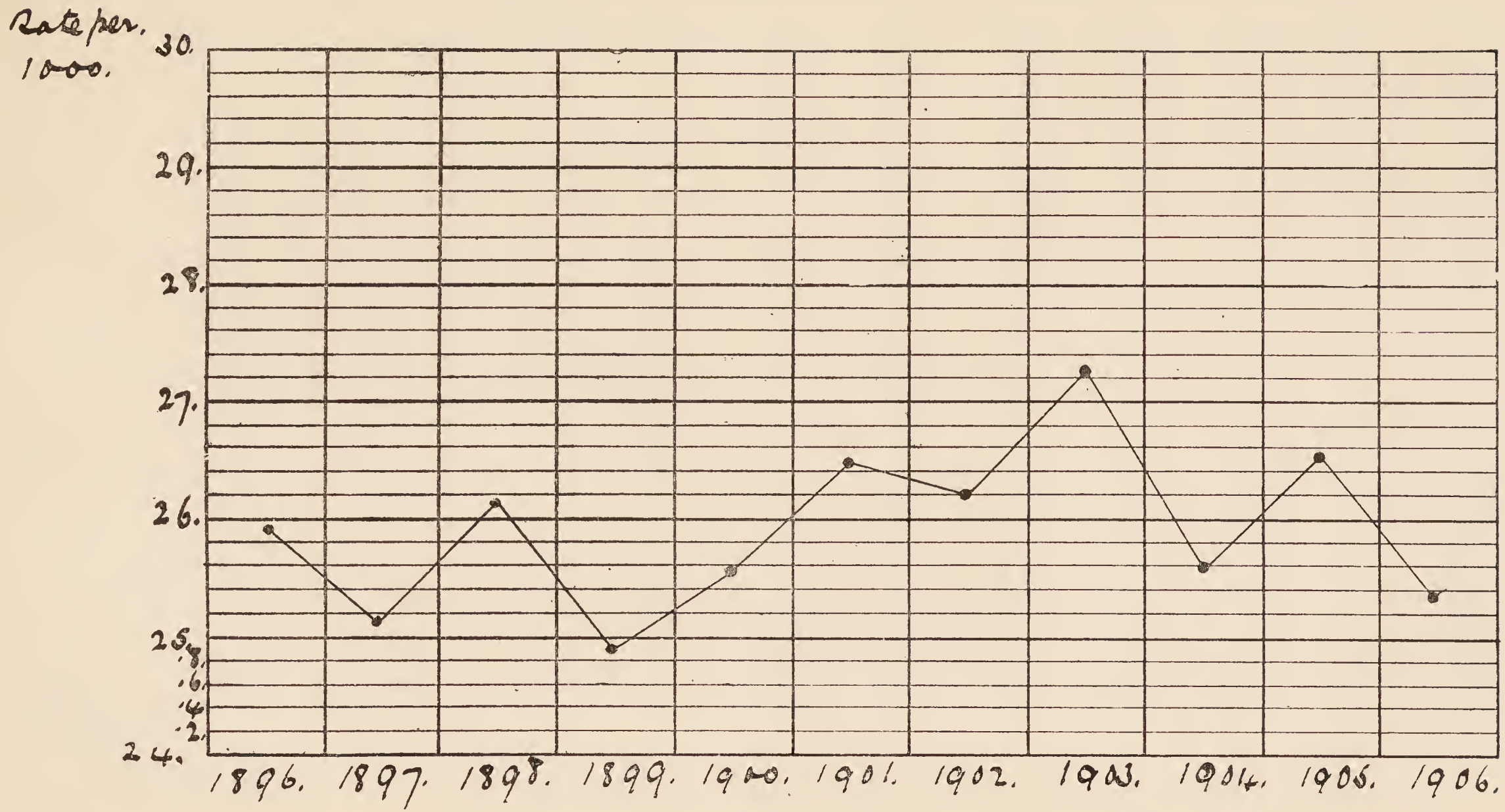

Chart shewing Death Rate of Waterloo-with-Seaforth for the past 11 years, as per Column 8, Table I.

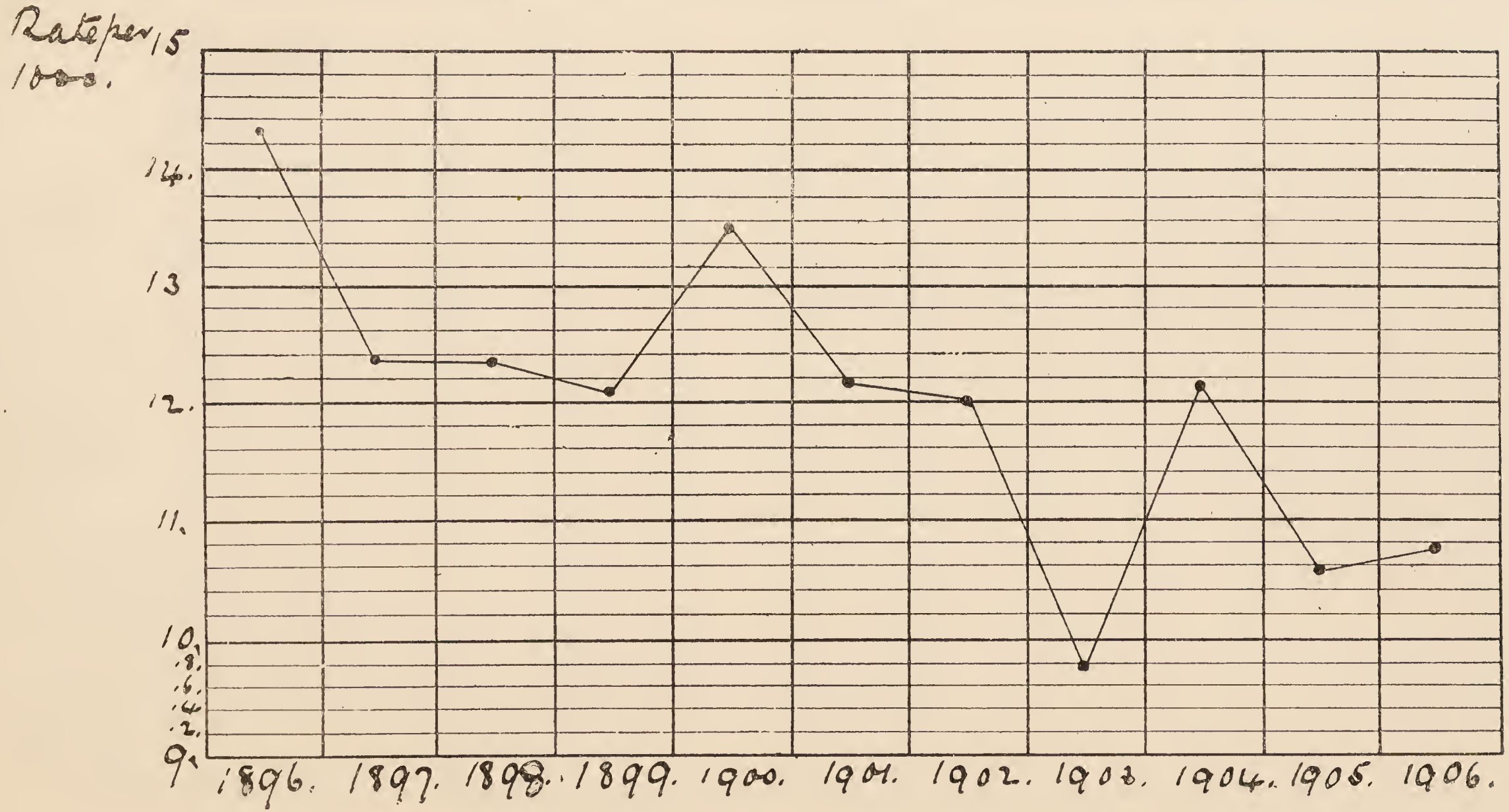

TABLE I.

URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

FOR WHOLE DISTRICT.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		DEATHS UNDER ONE YEAR OF AGE.		DEATHS AT ALL AGES. TOTAL.	
		Number.	Rate.*	Number.	Rate per 1,000 Births registered.	Number.	Rate.*
1.	2.	3.	4.	5.	6.	7.	8.
1896	21,119	547	25·90	77	140·76	302	14·30
1897	21,824	548	25·10	86	156·20	270	12·37
1898	23,058	603	26·15	96	159·20	285	12·36
1899	23,880	595	24·89	91	152·94	288	12·05
1900	†22,500	575	25·55	76	132·17	305	13·55
1901	23,102	611	26·44	74	121·11	281	12·15
1902	24,236	635	26·20	79	124·40	291	12·00
1903	25,175	686	27·24	69	100·58	246	9·77
1904	25,863	662	25·59	83	125·37	314	12·14
1905	26,093	692	26·52	66	95·37	275	10·53
Averages for years 1896-1905.	23,685	615	25·95	79	130·81	285	12·12
1906	26,410	669	25·33	80	119·58	283	10·71

Area of District in acres (exclusive of area covered by water)...740 acres.
Total Population at all ages, at census of 1901 23,102
Number of Inhabited Houses ,, ,, ...4,634
Average number of Persons per house ,, ...4·75

*Rates calculated per 1,000 of estimated Population.

†Corrected from Census Returns, 1901.

TABLE II.

URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

Names of Localities.	WATERLOO.				SEAFORTH			
YEAR.	Population estimated to middle of each Year.	Births registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births registered.	Deaths at all Ages.	Deaths under 1 Year.
	a.	*b.*	*c.*	*d.*	*a.*	*b.*	*c.*	*d.*
1896	9,076	202	115	18	12,043	345	187	59
1897	9,470	191	106	34	12,354	357	164	52
1898	10,039	228	107	22	13,019	357	178	74
1899	10,331	197	116	30	13,549	398	172	61
1900	*9,646	211	125	31	*12,856	364	180	45
1901	9,839	248	107	26	13,263	363	174	48
1902	10,483	236	105	18	13,753	399	186	61
1903	10,967	251	97	23	14,208	435	149	46
1904	11,471	254	126	24	14,392	408	188	59
1905	11,685	263	119	17	14,408	429	156	49
Averages of years 1896 to 1905.	10,300	228	112	24	13,384	385	173	55
1906	11,965	278	104	23	14,445	391	179	57

*Corrected from Census Returns, 1901,

TABLE III.

URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1906.

Notifiable Disease.	Cases Notified in whole District.							Total Cases Notified in each Locality.		No. of Cases removed to Hospital from each Locality.	
	At all Ages.	At Ages—Years.						1. Waterloo.	2. Seaforth.	1. Waterloo.	2. Seaforth.
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards				
Diphtheria	25	...	4	18	3	...	...	12	13	2	6
Erysipelas	12	...	1	1	...	8	2	5	7	...	...
Scarlet fever	81	...	16	54	7	4	...	33	48	9	22
Enteric fever	23	...	1	8	9	5	...	7	16	2	8
Puerperal fever.....	1	...	...	...	...	1	...	...	1	...	...
Measles	1	...	...	1	...	...	...	1	...	...	...
Totals.....	143	...	22	82	19	18	2	58	85	13	36

TABLE IV.

URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

CAUSES OF, AND AGES AT, DEATH DURING YEAR 1906.

Causes of Death.	Deaths in whole or belonging to whole District at subjoined Ages.							Deaths in Localities (at all Ages).	
	All Ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Waterloo.	Seaforth.
Measles	8	...	7	1	...	...	...	...	8
Whooping-cough	7	3	4	...	...	...	...	...	7
Diphtheria and Membranous croup	3	...	1	2	...	...	...	1	2
Croup	1	...	1	...	...	...	...	1	...
Fever—Enteric	1	...	...	...	...	1	...	1	...
Diarrhœa	26	23	3	...	...	...	...	7	19
Enteritis	2	...	1	...	1	...	...	2	...
Puerperal fever	1	...	...	...	...	1	...	...	1
Phthisis (Pulmonary Tuberculosis)	15	...	...	1	3	11	...	4	11
Other tubercular diseases	11	2	5	...	1	2	1	5	6
Cancer, malignant disease	14	...	...	...	...	12	2	6	8
Bronchitis	19	6	...	...	...	5	8	5	14
Pneumonia	20	5	3	2	...	6	4	3	17
Pleurisy	3	...	...	...	1	...	2	2	1
Alcoholism, Cirrhosis of liver	5	...	...	...	...	2	3	4	1
Premature birth	18	18	...	...	...	...	...	6	12
Heart diseases	14	...	...	...	1	5	8	7	7
Accidents	6	...	2	...	...	2	2	1	5
Found drowned	4	...	...	1	...	3	...	3	1
All other causes	105	23	6	2	...	33	41	46	59
All causes	283	80	33	9	7	83	71	104	179

TABLE V.

URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

INFANTILE MORTALITY DURING THE YEAR 1906.

Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total De'ths under one Year.
All Causes. Certified	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	77
All Causes. Uncertified	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Whooping Cough	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	...	3
Diarrhœal Diseases. Diarrhœa, all forms	...	...	...	...	...	1	2	3	2	...	...	1	1	...	...	...	10
Diarrhœal Diseases. Enteritis, Muco-enteritis, Gastro-enteritis	...	...	...	1	1	2	...	4	1	...	1	2	...	...	1	1	13
Wasting Diseases. Premature Birth	12	3	2	...	17	1	...	...	...	...	...	...	...	...	...	...	18
Wasting Diseases. Congenital Defects	1	1	...	...	2	...	...	...	1	...	...	...	...	...	...	...	3
Wasting Diseases. Want of Breast-milk, Starvation	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Wasting Diseases. Atrophy, Debility, Marasmus	...	...	2	1	3	1	1	...	1	...	...	1	...	...	...	...	7
Tuberculous Diseases. Tuber. Peritonitis; Tabes Mesenterica	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
Tuberculous Diseases. Other Tuber. Diseases	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
Convulsions	1	...	...	...	1	1	...	1	1	...	...	...	1	...	...	...	5
Bronchitis	...	...	...	...	...	3	1	...	...	...	...	1	...	...	...	1	6
Pneumonia	...	...	...	...	...	...	...	...	...	1	1	...	1	2	...	...	5
Other Causes	5	...	...	...	5	...	2	...	...	...	...	...	...	...	...	...	7
	19	4	4	2	29	10	6	9	6	1	4	6	3	3	1	2	80

Population, Estimated to middle of 1906.....26,410.
Births in the year, Legitimate, 654. Illegitimate, 15.
Deaths in the year of Legitimate infants, 72. Illegitimate infants, 8.
Deaths from all Causes at all Ages.....283.

Annual Report of Medical Officer of Health for 1906, for the Urban District of Waterloo-with-Seaforth.

Factories, Workshops, Laundries, Workplaces and Homework.

1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions
Factories (Including Factory Laundries)	7	3	...
Workshops (Including Workshop Laundries.)	149	20	...
Workplaces (Other than Outworkers' Premises included in part 3 of this Report.)	5	1	...
Total	161	24	...

2.—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions.
	Found.	Remedied.	Referred to H M. Inspec'r.	
*Nuisances under the Public Health Acts :—**				
Want of cleanliness	21	21	...	...
Want of Ventilation	1	1	...	...
Overcrowding	3	3	...	...
Other nuisances	67	67	...	...
†Insufficient Sanitary accommodation.	2	1	...	...
Offences under the Factory and Workshop Act :				
Breach of special sanitary requirements for bakehouses (SS. 97 to 100).	6	6	...	...
Total	100	99	...	...

*Including those specified in sections 2, 3, 7 and 8, of the Factory and Workshop Act as remediable under the Public Health Acts.

†Section 22 of the Public Health Acts Amendment Act, 1890, has been adopted by the District Council.

3.—HOME WORK.

Nature of Work.	Outworkers' Lists, Section 107.		
	Numbers of Addresses of Outworkers received from other Councils.	Numbers of Addresses of Outworkers forwarded to other Councils.	Number of Inspections of Outworkers' Premises.
Wearing Apparel—			
(1) making, &c.....	* 3	...	3
(2) cleaning and washing	...	...	—
Total	3	...	3

* February list contained 1 name, August list 2 names.

4.—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the year.	Number.
Workshop, Bakehouses	23
Dressmakers, Milliners, and Tailors	39
Laundries	14
Total number of workshops on Register.....	*129

*This number includes 30 on Bakehouse Register.

5.—OTHER MATTERS.

Class.	Number.
Matters notified to H.M. Inspectors of Factories:—	
Failure to affix Abstract of the Factory and Workshop Act (S. 133)	9
Underground Bakehouses (S. 101):—	
Certificates granted during the year	none.
In use at the end of the year	4

W. S. LIMRICK,

Medical Officer of Health.

February, 1907.

TABLE (C.) COUNTY OF LANCASTER.

Summary of Medical Officer's Report for 1906.

THE URBAN DISTRICT OF WATERLOO-WITH-SEAFORTH.

Area in Statute Acres—1,524.

Population (Census) 1901—23,102.

Population (Estimated) 1906—26,410.

Name of Medical Officer of Health—W. S. Limrick. Salary, £120.

Births registered.—Male, 356; female, 313; total, 669.

Deaths registered (nett deaths belonging to the District).—Male, 145; female 138; total, 283.

Number of Illegitimate Births registered, 15. Deaths of Illegitimates under one year of age, 8.

Birth Rate, 25·33. Death Rate, 10·71. Rate of Infant Deaths, under one year, to 1,000 Births, 119·58.

Death Rate from the seven principal Zymotic Diseases per 1,000 of population, 1·74.

Diseases prevalent?—Chickenpox, Scarlet Fever and Diphtheria. Period?—May, Chickenpox in May, and others in last quarter.

What is the character of the Hospital Accommodation?—Good.

Is it Joint or otherwise?—Joint, an arrangement to pay a sum per week for each patient and a fee for each removal; no retaining fee paid.

Number of Beds available for your District?—Patients received in Hospital until full.

Number of cases treated?—Diphtheria 8, Scarlet Fever 31, Typhoid Fever, ·10; total 49.

Deaths in Hospital?—5. From what causes?—Scarlet Fever and Enteric Fever.

How is Disinfection carried out?—Houses fumigated with Sulphur; Clothing, Bedding, &c., Superheated Steam. Apparatus used?—Washington-Lyon. Where situated?—In Council's yard.

Number of cases of Infectious Disease Notified?—143.

Are any Diseases not specifically mentioned in the Act notifiable (for instance, Measles, Whooping Cough, Diarrhœa, Chicken Pox, &c.)? If so, what are they?—No.

Has any arrangement been made for the "voluntary" notification of Phthisis?—Yes, voluntary notification invited, rooms, bedding, &c., have been disinfected, disinfectants given upon application.

Action taken under "The Housing of the Working Classes Acts." —None.

From where is the Water Supply obtained, and what is its condition? Is it subject to your Inspection?—Liverpool Corporation Waterworks. Good. Yes.

Is Scavenging carried out satisfactorily?—Yes. By Sanitary Authority or Contract?—Sanitary Authority do scavenging and watering; house refuse removal done by Contract.

How is the Refuse disposed of?—Tipped and buried. Has a Destructor been provided?—No.

What is the character of Drainage and the form of Sewage Disposal?—Water-carriage; sewage discharged into the estuary of the Mersey.

Canal Boats (Number Inspected, &c.)?—None.

What is the condition of the Bakehouses?—Satisfactory.

Slaughter Houses?—None. Has a Public Abattoir been provided? —No.

Lodging Houses. Are they registered?—None. Sub-let houses are registered.

Dairies, Cowsheds, and Milkshops:—Are they periodically inspected?—Yes. What is their condition?—Good. Have Regulations been made under the Order of the Local Government Board?—Yes. Are they enforced?—Yes. What amount of air space in cubic feet is required for each cow?—600 cubic feet.

Food unfit for Human Consumption. Amount seized?—None.

Department of Inspector of Nuisances:—No. of Notices served?—697. Nuisances remedied?—2,487. No. of Legal Proceedings taken and result?—3 cases, 2 defective drainage, work done, summonses withdrawn on payment of costs; 1 case, nuisance from black smoke, as reported below.

Closet accommodation of the District:—No. of Privy Middens?—4 in outlying portions of District. Pail Closets?—3. Fresh Water Closets?—8,900. Waste Water Closets?—None.

Smoke:—No. of Observations?—25. No. of Legal Proceedings taken and result?—One case, order of Court obtained to abate nuisance; and costs. What is the time limit allowed for the emission of black smoke per hour?—4 minutes in the hour.

Has the Authority adopted— (*a*) "The Infectious Disease (Prevention) Act, 1890"?—Yes. (*b*) "The Public Health Acts Amendment Act, 1890"?—Yes.

W. S. LIMRICK,
Medical Officer of Health.

February, 1907.

Sanitary Inspector's Annual Report

FOR 1906.

Town Hall, Waterloo,
February, 1907.

To the Chairman and Members of the
Urban District Council of Waterloo-with-Seaforth.

Mr. Chairman and Gentlemen,

I beg to submit my Annual Statement of the work done in the Sanitary Department during the past year, and also particulars of nuisances abated, and improvements effected thereby.

INSPECTION OF THE DISTRICT.

In addition to the ordinary routine work involved in the investigation of complaints, &c., a large number of references from the flushers have been dealt with. House to house inspections have been made in 17 streets in the District resulting in the discovery of a large number of defects as will be seen from the summary at the end of this Report.

The total number of inspections being 1,486.

NOTICES, &c., SERVED.

Five hundred and seventy-four preliminary notices with respect to various nuisances found in the course of inspection were served upon owners or occupiers, most of which received prompt attention. In 114 instances nuisances in connection with 125 houses were reported to the Health Committee, and instructions given for statutory notices to be served, but it was necessary to serve only 28 notices, as the nuisances were abated between the times of Committee and Council Meetings.

The various premises were visited during the progress of the work, with the object of seeing that the notices were complied with, the number of such re-inspections being 2,437.

Also 81 letters were written to owners and others calling attention to notices which had not been complied with. I have also had frequent interviews with owners, occupiers and contractors in all parts of the District, relative to works required to be done.

SMOKE TESTING.

The smoke test has been applied to the drains of 360 houses, and many defects were discovered which would not have been found out by a superficial examination.

Twenty-seven of the tests were at the expense of occupiers or prospective occupiers who were desirous of knowing the sanitary condition of the premises they were interested in. After the examination a report was sent to the persons who requested the application of the test.

DRAINS.

Four hundred and ninety-two defective drains have been repaired, relaid or reconstructed, a large number being found by means of the smoke machine on the Vicarage Estate, and at houses in the roads off the North side of St. John's Road. A number of these drains were connected direct to the sewer without the intervention of a suitable trap; 34 disconnecting traps have been fixed, inlet ventilation has been provided to 96 drains, and in one case outlet ventilation has been obtained by a 4-inch shaft fixed at the head of drain and carried up above eaves of house roof. In 2 instances drains passing under houses were removed.

Seventy choked drains have been opened and cleansed, and 105 gullies fixed in lieu of defective gullies or mason's traps.

PRIVIES.

Two privies have been abolished, and in one instance a water closet provided, in the other case the privy was out of use, and was, therefore, made up, there being sufficient water closet accommodation on the premises. It was not necessary to serve notices under Section 36, Public Health Act, 1875, as the owners did the work on service of preliminary notice.

WATER CLOSETS.

One foul pan closet was removed and a pedestal closet, provided with a separate flushing cistern, fixed.

Thirteen choked closets have been opened and cleansed, while 60 new basins and 46 new traps have been fixed in lieu of foul or defective ones. Twelve closet apartments have been provided with improved ventilation; at 80 premises, defective roofs, walls, seats, floors, &c., were made good. A proper and sufficient flush of water has been provided to 39 closets, and 4 closet cisterns have been repaired. In 5 instances flush pipes have been made good and 300 connections of the flush pipes with closet basins made water-tight.

SOIL PIPES.

Four soil pipes have been ventilated by 4-inch shafts carried up to a safe point above eaves of roof, and 37 soil or ventilating

pipes were renewed and made gas-tight. In 185 instances the joints of soil or ventilating pipes have been made sound, and 125 drains from such pipes repaired, while 25 connections of soil or ventilating pipes with drains, and 40 connections of closet traps with branch soil pipes have been made good.

Choked ventilating pipes at 12 premises have been cleared.

WASTE PIPES, &c.

Untrapped and defective waste pipes have been trapped or made sound in 81 instances, and 28 lavatory and bath waste pipes have been trapped and made to discharge separately in the external air; 9 choked waste pipes were cleared.

Eighteen rain-water conductors have been disconnected from soil pipes or drains and made to discharge over trapped gullies, and 40 rain-water pipes have been made good.

New salt-glazed stoneware sinks have been fixed in 10 instances.

FLUSHING OF HOUSE DRAINS.

The Surveyor has furnished the following particulars of the work done in his Department in connection with the flushing of house drains. In 2,303 instances drains were found to be in a choked condition, and 2,187 were cleared by the flushers at time of visit. Where they could not deal with the chokages, or when other structural defects were found, a reference was made to the Sanitary Department; the number of such references being 1,065.

The following is a summary of the work done:—

Number of houses visited	.....	10,796
Do.	yard closets flushed	10,045
Do.	yard gullies flushed	25,368
Do.	gallons of water used	2,713,600
Do.	references to Sanitary Department ...	1,065

HOUSES LET IN LODGINGS.

The Houses let in Lodgings or occupied by members of more than one family, have been visited, and attention has been directed to the condition of the rooms as regards cleanliness and ventilation, and to the general sanitary state of the premises. I find an improvement in these houses, as the occupiers appear to realise that the Regulations demand a standard of cleanliness, and that any default can be promptly dealt with. When houses are found to come under the above heading, I have the rooms measured, and space sheets, together with a copy of the Regulations, served upon the chief occupiers. This entails a large amount of work as many of these families move about from house to house.

During the year 52 visits have been made, 17 rooms were measured, and in 5 instances overcrowding was found, while in one house the bedroom floors were in a dirty condition. These matters were all attended to upon written or verbal notice being given to the Chief Occupiers.

Seventeen houses have been marked off the Register as they have ceased to be sublet, and 4 houses have been placed thereon, making a total of 16 houses.

COWSHEDS, DAIRIES AND MILKSHOPS.

Five applications to be registered as cowkeepers or purveyors of milk have been received. In one instance the application was withdrawn as the shop was not suitable for the business. The others were granted after an inspection of the premises. The cowsheds, dairies and milkshops have been periodically visited and I found them in a satisfactory condition, a total number of 231 visits being made.

In 5 shippons overcrowding was found, the excess number of cows being removed upon verbal notice being given. Alterations have been made in 2 shippons, so as to increase the air space and allow of more cows being housed therein.

The limewashing and cleansing was done in every instance. Notices have been served to remedy defects in connection with the premises and they have been complied with.

There are 38 cowkeepers and purveyors of milk on the Register.

INSPECTION OF FOOD SUPPLY.

The food, &c., exposed for sale in the District has been inspected from time to time, no seizure being made.

EXAMINATION OF FOODSTUFFS.

During the year I submitted 52 samples of milk, 10 samples of canned and potted meats, and 4 samples of Ice-cream to Professor Sir R. Boyce for bacteriological examination, and certificates have been received with regard to the canned meats, ice-cream, and 47 samples of milk, leaving 5 certificates outstanding at the end of the year.

Milk.—Twenty-nine of the samples were obtained from local purveyors and 23 from persons residing outside the District.

The Tubercle Bacillus was not found in any of the samples. Of the 29 samples from local sources, 5 were certified to be free from indications of contamination, the Bacillus Coli Communis was discovered in 21 samples, while in 5 instances the

guinea pigs died before the test was complete, and 3 certificates have not yet come to hand. With respect to the 23 samples obtained from persons residing outside the District, 5 were returned free from indications of contamination; the Bacillus Coli Communis was certified to be in 15 samples, in one of which the Bacillus Enteritidis Sporogenes was also present, the Bacillus Enteritidis Sporogenes was in 1 sample and in 4 cases the guinea pigs died before the test was complete; 2 certificates have not been received.

Canned and Potted Meats.—Ten samples were sent in and the following were returned as sterile, one each of Potted Ham, Ham Loaf, Beef Loaf, Veal Loaf, Mulligatawny Soup, Potted Beef, and one of Corned Beef. One sample of Potted Ham (tin) and one of Corned Beef (loose) were not sterile, but the Bacillus Coli Communis and Bacillus Enteritidis Sporogenes were not present.

One sample of Potted "Chicken, Ham and Tongue," made up by a firm in an adjoining district was certified to contain "a few spore-bearing bacteria and the Bacillus Coli Communis was present." The Medical Officer of Health for the District was informed of this and he gave the matter prompt attention.

Ice-cream.—Four samples were submitted and the Bacillus Coli Communis was found in 2; while the Bacillus Coli Communis together with the Bacillus Para Colon, was certified to be present in the other 2 samples.

In all cases where samples of milk were found to be contaminated a letter was sent by the Clerk to the Council, calling attention of the purveyor to the fact and urging strict precautions to be taken in handling and storage of same.

STERILIZED HUMANISED MILK.

The sale of this milk was discontinued on March 31st, up to that date 851 baskets containing 7,020 bottles had been sold.

ICE CREAM VENDORS.

The premises of manufacturers and vendors of ice-cream were visited during the summer months, and I found them in a clean condition. The itinerant vendors on the Fair Ground and Fort Road have been kept under observation.

FOOD AND DRUGS AND MARGARINE ACTS.

The following particulars of samples obtained under the above Acts in this District, and submitted for chemical analysis, have been furnished by Mr. Superintendent Cross.

No. of Samples Purchased.	Description of Samples.	Proceeded against.	Convicted.
20	Milk	2	*2
5	Butter	...	...
1	Ice Cream	...	...
1	Cream	...	...
1	Castor Oil	...	...
1	Glycerine	...	...
2	Tea	...	...
1	Margarine	...	...
1	Gooseberry Jam	...	...
2	Vinegar	...	...
1	Golden Syrup	...	...
1	Bottled Peas	...	...
1	Potted Lobster	...	...
1	Arrowroot	...	...
2	Pepper	...	...
1	Lard	...	...
42		2	2

* Two Dealers fined £5 and costs and £1 and costs, respectively.

FACTORY AND WORKSHOP ACT, 1901.

WORKSHOPS.

The workshops, workplaces and laundries in the District have been inspected, 111 visits being made. The walls and ceilings of 17 workrooms required limewashing or cleansing, and in 4 the floors were dirty. Eighteen rooms have been measured and 3 found to be overcrowded, while 67 nuisances were discovered in connection with workshop premises. All these matters were promptly attended to by the owners or occupiers.

Two workshops were found to be without sufficient closet accommodation. In one the notice has been complied with, and in the other case the work is in hand.

There are 99 workshops on the Register and the Government Inspector of Workshops, &c., was notified of 7 workshops which were found unprotected.

HOMEWORK.

Three lists have been received with regard to 3 persons engaged in making wearing apparel. The premises were inspected and found to be in order.

BAKEHOUSES.

The bakehouses have been periodically visited and found to be in a satisfactory condition. In 6 instances the cleansing of walls

and ceilings had not been done, and in 3 the floors, &c., were dirty. The work was done upon written or verbal intimation being given. The ventilation has been improved in one bakehouse. Four underground bakehouses for which certificates have been granted are being used in conformity with the Act.

An application to re-open an underground bakehouse, which had been closed for some years, was dealt with by the Medical Officer of Health. Two bakehouses were found to be unprotected, and the Government Inspector was notified thereof. There are 30 bakehouses on the Register, and 50 visits have been made during the year.

TENTS, SHEDS, AND VANS.

The living carriages coming into the District have been visited during the year. They were found to be in good condition, cleanly, and free from overcrowding.

As Wallis's Field is now being used for business purposes, we are not likely to have many of this class of dwelling again in the District.

INFECTIOUS DISEASES.

In accordance with the instructions of the Medical Officer of Health, investigations have been made into each of the 143 cases of Infectious Disease notified to him during the year. Also persons who were notified by outside authorities as having been exposed to the infection of smallpox, typhus fever, &c., were visited and kept under observation. Ninety-three intimations were sent to Head Teachers regarding school children from houses where there was infectious disease.

DISINFECTION.

One hundred and forty-eight rooms were disinfected and cleansed, paper being scraped off the walls where necessary. In 5 instances rooms were scraped by order of the Council, in default of compliance with notices served.

The steam disinfecting apparatus was used 252 times, 3,205 articles of bedding, &c., being disinfected, and 10 articles were destroyed at the request of owners. During the removal of the disinfecting apparatus 490 articles were taken to Liverpool for disinfection.

HOUSE REFUSE CONTRACT.

The ashpits and bins in the District have been systematically emptied and disinfected by the Contractor, the pits every three months and upon application, and the bins weekly. There has been a large increase in the number of emptyings of pits and bins

this year, a total of 76,832 being reached as compared with 62,961 in 1905. This is due to the increasing number of bins and the frequent clearing. Contraventions of the contract have been reported from time to time and dealt with by the Committee. Forty-five galvanized iron bins have been provided in lieu of ash-pits, 18 foul and defective pits being filled in or made good, and 4 premises provided with ash accommodation.

LEGAL PROCEEDINGS AND RESULTS.

It was found necessary to institute proceedings as follows:—

Nature of Complaint	Act or Order under which proceedings instituted.	Results.
Defective Drainage, &c., at two houses	Section 94, P.H.A., 1875	Work completed before day of hearing, summons withdrawn on payment costs.
An excessive quantity of black smoke emitted from chimney	Section 94, P.H.A., 1875	Order to abate nuisance, and costs.

SUMMARY OF WORK OF DEPARTMENT.

Number of houses inspected	1486
Number of houses re-inspected...	2437
Number of visits to workshops	111
Number of visits to bakehouses	50
Number of visits to cowsheds, dairies and milkshops ...	231
Number of visits to ice-cream shops	24
Number of visits to schools	11
Number of visits to sub-let houses	52
Number of visits to smallpox, &c., contacts	55
Number of times smoke test applied to house drains ...	360
Number of preliminary notices served	574
Number of statutory notices served	28
Number of houses in connection with notices	1076
Number of observations taken for black smoke	25
Samples of milk submitted for bacteriological examination	52
Samples of other foodstuffs submitted for bacteriological examination	14
Cases of infectious disease reported upon	143
Number of notices served to strip and cleanse walls ...	95
Number of rooms fumigated	148
Number of times Disinfecting apparatus used	252
Articles of bedding, clothing, &c., disinfected	3205
Letters written in connection with notices	81
Number of intimations about infectious disease sent to schools	93

DETAILS OF SANITARY IMPROVEMENTS EFFECTED DURING THE YEAR.

DRAINS.

Drains choked—opened and cleansed	70
Drains removed from under houses	2
Defective drainage, reconstructed, relaid or repaired	492
Disconnecting traps fixed	34
Heads of drains ventilated with 4-inch shafts	1
Inlet ventilation provided to drains	96
Gullies fixed in lieu of defective gullies, or mason's traps	105

WATER CLOSETS.

Pan closet removed and wash down closet substituted	1
Choked closets opened and cleansed	13
Closet basins and traps substituted for defective ones	106
Closets provided with a proper and sufficient flush of water ...	39
Defective connection of flush pipes to closets made good	300
Defective closet cisterns repaired or replaced	4
Defective closet walls, roofs, floors, &c., repaired	80
Closet apartments ventilated	12

SOIL PIPES.

Soil pipes ventilated with 4-inch pipes	4
Joints of soil pipes made gas-tight	185
Defective drains from soil or ventilating pipes made good	125
Ventilating pipe connections with drains made good	25
Soil and ventilating pipes renewed	37
Ventilating pipes choked—obstructions removed	12
Defective connections of closet traps with branch soil pipes made good	40

WASTE PIPES.

Defective waste pipes trapped or made good	81
Choked waste pipes cleared	9
Bath and wash basin waste pipes disconnected and made to discharge separately over gullies	28
New salt-glazed stoneware sinks fixed	10
Rain water pipes disconnected from soil pipes or drains... ...	18

WATER SUPPLY.

Premises supplied with water for domestic use...	2
Defective water pipes repaired	11
Water storage cisterns covered and cleansed	18
Water storage cisterns abolished	2
Offensive rain water cisterns emptied and cleansed, or filled in ...	11
References *re* waste of water	20

FILTHY AND DILAPIDATED PREMISES.

Foul houses, walls, &c., stripped and cleansed...	6
Filthy house floors cleansed	3
Defective roofs made water-tight	9
Defective chimney flues repaired	2
Defective rain water pipes and eaves spouting made good	62
Choked rain water pipes cleared...	12
Defective house walls re-pointed	28
Defective house floors repaired	3

PRIVIES AND ASHPITS.

Privy middens abolished	2
Ashpits filled in to ground level and paved	18
Foul ashpits abolished or disused...	38
Galvanized iron bins provided in lieu of ashpits	45
Premises provided with ash accommodation	6

MISCELLANEOUS.

Surfaces of yards repaired or repaved	138
Nuisances from improper keeping of animals abated	5
Accumulations of offensive matter removed	23
Middensteads repaired and drained	3
Nuisances from overcrowding in houses abated	12
Overcrowding in cowsheds abated	5
Miscellaneous nuisances abated	74

I am, Gentlemen,

Your obedient Servant,

J. H. CANNELL, Assoc. R. San. Inst.,

Sanitary Inspector.